| <del></del>                             | Index of Claims   |                 |                         |          |                     |              |                          |            |             |                  |  |           |          | Application/Control No. |          |          |           |         |          |       |          |            |          |          | Applicant(s)/Patent under Reexamination |           |          |          |          |           |          |  |  |
|---|-------------------|-----------------|-------------------------|----------|---------------------|--------------|--------------------------|------------|-------------|------------------|--|-----------|----------|-------------------------|----------|----------|-----------|---------|----------|-------|----------|------------|----------|----------|---|-----------|----------|----------|----------|-----------|----------|--|--|
| 1 4 14 14 14 14 14 14 14 14 14 14 14 14 |                   |                 |                         |          |                     |              |                          |            |             |                  |  |           | 44       | 10/040 114              |          |          |           |         |          |       |          |            |          |          |   |           |          |          |          |           |          |  |  |
|   |                   |                 |                         |          |                     |              |                          |            |             |                  |  |           |          | 10/840,114<br>Examiner  |          |          |           |         |          |       |          |            |          |          | HOFFMANN ET AL.                         |           |          |          |          |           |          |  |  |
|   |                   |                 |                         |          |                     |              |                          |            |             |                  |  |           |          | Mary Kate B. Baran      |          |          |           |         |          |       |          |            |          | 2857     |   |           |          |          |          |           |          |  |  |
| •                                       |                   |                 |                         |          |                     |              |                          |            |             |                  |  |           |          |                         |          |          |           |         |          |       |          |            |          |          |   |           |          |          |          |           |          |  |  |
| •                                       | √ Rejected        |                 |                         |          |                     |              | (Through numer Cancelled |            |             |                  |  |           | al)      | N Non-El                |          |          |           |         | Ele      | ct    | ed       |            | A        | Appeal   |   |           |          |          |          |           |          |  |  |
|   | = Allowed         |                 |                         |          |                     |              | •                        | Restricted |             |                  |  | d         |          |                         |          | 1        | Interfere |         |          | en    | ice      |            | 0        | Objected |   |           |          |          |          |           |          |  |  |
| Claim                                   | _                 | ate             |                         |          |                     |              | Cli                      | 1          |             |                  |  |           |          |                         |          |          |           | im      | _        | Date  |          |            |          | _        |   | $\neg$    |          |          |          |           |          |  |  |
| _ Claim                                 | ٦                 | Т               | ТΪ                      | ate      | Т                   | TTTT         |                          |            | Claim _     |                  |  |           |          | Τ̈́                     | Date     |          |           | Т       | $\dashv$ | Claim |          |            |          | Date     |   |           |          | П        | Т        | ┪         |          |  |  |
| Finat                                   | 12/22/05          |                 |                         |          |                     |              |                          |            | Final       | Original         |  |           |          |                         |          | ١        |           |         | l        | ı     | Final    | Original   |          |          |   |           |          |          |          | 1         |          |  |  |
| 1 163                                   | لسلة              |                 | $\sqcup$                | 4        | 4                   | 4            | 4                        |            | <u> </u>    |                  | Ц  | Ц         |          | $\Box$                  | 4        | 4        | 4         | 4       | 4        | ŀ     |          |            | Ц        | 4        | 4                                       | 4         | 4        | 4        | 4        | 4         | 4        |  |  |
| 1 2                                     | 7                 |                 | Н                       | -        | +                   | +            | ╬                        | ┨          |             | 51<br>52         | H  | Н         | $\dashv$ | -                       | $\dashv$ | +        | +         | ╫       | ┥        | ŀ     |          | 101<br>102 | Н        | -        | $\dashv$                                | $\dashv$  | $\dashv$ | ┥        | ┰        | ┪         | ┨        |  |  |
| 3                                       | V                 |                 | Н                       | 7        | 1                   | 1            | $\top$                   | 1          |             | 53               | $\vdash$   | Н         |          |                         | _        | _        | †         | 1       |          | t     |          | 103        |          |          | 士                                       | $\exists$ | $\pm$    | ╛        | ╛        | $\exists$ | ╛        |  |  |
| 4                                       | 1                 |                 | П                       | $\Box$   | $\rightrightarrows$ | 1            | Ŧ                        | ]          |             | 54               |  | П         |          |                         | 4        | 4        | 4         | 1       | 4        | Į     |          | 104        |          | 4        |   | $\dashv$  | 1        | 4        |          | 4         | 4        |  |  |
| 5                                       | 44                |                 | $\vdash$                | $\dashv$ | $\dashv$            | +            | +                        | ┨          | <u> </u>    | 55<br><b>5</b> 6 | ⊢  | Н         | $\dashv$ | $\dashv$                | $\dashv$ | +        | +         | ╫       | $\dashv$ | ŀ     |          | 105<br>106 | Н        | $\dashv$ | $\dashv$                                | ┥         | $\dashv$ | ᅱ        | $\dashv$ | ┥         |          |  |  |
| 1 + 7                                   | Ť                 |                 | +                       | +        | 十                   | ╅            | +                        | 1          |             | 57               | $\vdash$   | Н         | $\dashv$ | $\dashv$                | $\dashv$ | ┪        | $\dashv$  | ╅       | ┪        | ŀ     |          | 107        | Н        | $\dashv$ | $\dashv$                                | +         | 十        | ┪        | $\dashv$ | 7         | ┪        |  |  |
| -8-                                     | V                 |                 | П                       |          | 1                   | 工            |                          | 1          |             | 58               |  |           |          |                         |          | コ        | $\Box$    | $\Box$  |          |       |          | 108        |          |          |   | $\Box$    |          |          |          | $\Box$    | $\Box$   |  |  |
| (9                                      | <b>/</b> ¥        |                 | Ш                       | $\dashv$ | 4                   | 4            | 4                        |            |             | 59               | <u> </u>   | Н         | $\dashv$ | _                       | -        | 4        | 4         | +       | 4        | ŀ     |          | 109        | $\vdash$ | 4        | 4                                       | -         | -        | -        | 4        | 4         | -        |  |  |
| 10                                      | <u>لا</u><br>لا أ | +               | ${\mathbb H}$           | -        | +                   | +            | +                        | ┨          | $\vdash$    | 60<br>61         | -  | Н         | $\dashv$ |                         | $\dashv$ | $\dashv$ | +         | +       | $\dashv$ | ŀ     |          | 110        | ┥        | -        | $\dashv$                                | ┥         | $\dashv$ | $\dashv$ | ┰        | +         | ᅱ        |  |  |
| 32                                      | ti                | $\vdash$        | ╁                       | ┪        | ┰                   | 十            | +-                       | 1          |             | 62               |  | H         |          | $\dashv$                | +        | $\dashv$ | _         |         | $\dashv$ | ŀ     |          | 112        | Н        | $\dashv$ | -                                       | ┪         | 十        | ┪        | +        | ┪         | ┨        |  |  |
| & 13                                    | 1                 |                 | $\Box$                  |          | 士                   |              |                          | 1          |             | 63               |  |           |          |                         | $\Box$   | コ        | $\Box$    |         |          | ľ     |          | 113        |          | ⇉        |   |           |          |          | $\Box$   |           | ⊐        |  |  |
| 14                                      | 1                 |                 | П                       |          | $\Box$              | $\Box$       | 1                        | ]          |             | 64               |  |           |          |                         | $\Box$   | $\perp$  | $\dashv$  | $\perp$ | _        |       |          | 114        |          | $\perp$  | $\dashv$                                | _         | _        | _        | _        | _         | 4        |  |  |
| 15                                      | 1                 | -               | H                       | $\dashv$ | +                   | +            | +                        | ┨          | $\vdash$    | 65<br>66         | H  | Н         | Н        | $\dashv$                | $\dashv$ | -        | 4         | +       | 4        | ŀ     | -        | 115<br>116 | H        | $\dashv$ | $\dashv$                                | ┥         |          | ┥        |          | $\dashv$  | $\dashv$ |  |  |
| 16                                      | 1                 | +               | H                       | ┪        | $\dashv$            | $\dashv$     | +-                       | ┨          |             | 67               | $\vdash$   | Н         | $\dashv$ | $\dashv$                | ┪        | -        | ┰         | +       | $\dashv$ | ŀ     |          | 117        | $\vdash$ | -        | +                                       | +         | $\dashv$ | ┪        | $\vdash$ | -         | $\dashv$ |  |  |
| 18                                      | Ħ                 |                 | H                       | $\dashv$ | 寸                   | 十            | +                        | 1          |             | 68               |  |           |          |                         | 7        | コ        | $\exists$ | Ì       | ╛        | t     |          | 118        |          |          | コ                                       |           |          |          |          |           | ╛        |  |  |
| 19                                      |                   |                 | П                       |          | $\Box$              | $\Box$       |                          | ]          |             | 69               |  | П         |          |                         | $\Box$   | $\Box$   | $\bot$    | $\bot$  | $\Box$   | ſ     |          | 119        |          | $\Box$   | $\Box$                                  | 4         | $\Box$   |          |          | $\Box$    | _        |  |  |
| 20                                      | 1                 | $\vdash$        | Н                       | -        | $\dashv$            | -            |                          | 1          | ļ           | 70<br>71         |  | Н         | $\dashv$ | $\dashv$                | -+       | -        | +         | +       | $\dashv$ | ŀ     | $\dashv$ | 120<br>121 | Н        | -        | $\dashv$                                | ┩         | -        | _        | $\dashv$ | $\dashv$  | $\dashv$ |  |  |
| 21                                      | ╁╌                | $\vdash$        | H                       | ┪        | $\dashv$            | $\dashv$     | ╌                        | 1          | ┢           | 72               | H  | Н         |          | $\vdash$                | $\dashv$ | ┪        | $\dashv$  | +       | $\dashv$ | ŀ     |          | 122        | Н        | ┪        | ┪                                       | ┪         | $\dashv$ | -        | $\dashv$ | $\dashv$  | ᅱ        |  |  |
| 23                                      | П                 | $\vdash$        | Ħ                       | ヿ        | 十                   | 1            |                          | 1          |             | 73               |  |           |          |                         | ╛        |          | 士         | 士       | ]        | į     |          | 123        |          |          | ユ                                       | 7         |          |          |          |           | コ        |  |  |
| 24                                      |                   |                 | П                       | $\Box$   | $\Box$              | $\Box$       |                          | ]          |             | 74               |  |           |          |                         | $\Box$   | $\Box$   | $\perp$   | $\perp$ | $\Box$   | [     |          | 124        | Ц        |          | $\Box$                                  |           | _        |          | $\Box$   | _         | $\Box$   |  |  |
| 25                                      | $\vdash$          |                 | Н                       | _        | -                   | -            |                          | ┨          |             | 75               | <b> </b> _                                       | Н         | $\vdash$ |                         |          |          | -         | +       | 4        | ŀ     |          | 125<br>126 | H        | -        | -                                       | -         | -+       | $\dashv$ | $\dashv$ | $\dashv$  | -        |  |  |
| 26<br>27                                | +                 | H               | Н                       | $\dashv$ | $\dashv$            | $\dashv$     | ╅                        | ┨          |             | 76<br>77         | $\vdash$   | Н         |          | $\dashv$                | ┪        | -        | +         | ╅       | $\dashv$ | ŀ     |          | 127        | $\vdash$ | -        | $\dashv$                                | ┪         | 一        | ᅱ        | $\vdash$ | ᅥ         | $\dashv$ |  |  |
| 28                                      | T                 |                 | H                       |          | ヿ                   | 1            | ┪                        | 1          |             | 78               |  | П         |          |                         | 寸        |          | 寸         | 1       |          | t     |          | 128        |          |          | $\Box$                                  |           |          |          |          | ⇉         |          |  |  |
| 29                                      |                   |                 | П                       |          |                     | $\bot$       |                          | ]          |             | 79               |  | П         |          |                         | $\Box$   | $\Box$   | $\Box$    | $\perp$ | $\Box$   |       |          | 129        | Ш        | $\Box$   |   |           |          |          | Ш        | 4         |          |  |  |
| 30                                      | ↓_                | Ц.              | ┦┦                      | _        | $\dashv$            | +            | +                        | ┨          | -           | 80               | ┞  | Н         | Н        | Н                       | $\dashv$ | -        | -+        | +       | $\dashv$ | ŀ     |          | 130<br>131 | Н        | ᅱ        | $\dashv$                                | -         | -        | -        |          | -         | $\dashv$ |  |  |
| 31                                      | ╀╌                | ╁               | H                       | $\dashv$ | $\dashv$            | +            | +                        | ┨          | -           | 81<br>82         | ⊢  | Н         |          | Н                       | ┪        | -        | +         | +       | $\dashv$ | ł     |          | 132        | Н        | ┪        | $\dashv$                                | +         | +        | -        | -        | $\dashv$  | $\dashv$ |  |  |
| 33                                      | 1                 |                 | $\Box$                  |          |                     |              |                          | 1          |             | 83               |  |           |          |                         | コ        | 士        | 士         | 1       | ╛        | l     |          | 133        |          | $\Box$   | ╛                                       |           |          |          |          |           | ╛        |  |  |
| 34                                      | $oxed{\Box}$      |                 | П                       |          | $\Box$              | $\Box$       | $\Box$                   | ]          |             | 84               |  |           |          | $\Box$                  | _        |          | $\dashv$  | 4       | _        |       |          | 134        |          | 4        | _                                       | _         | _        |          | _        |           | _        |  |  |
| 35                                      | ╀                 | $\vdash$        | ₩                       | -        | +                   | +            |                          | ┨          | <b>-</b>    | 85<br>86         | ⊢  | Н         | $\vdash$ |                         | ┥        | $\dashv$ | +         | +       | 4        | ł     |          | 135<br>136 | Н        | $\dashv$ | $\dashv$                                | +         | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$  | $\dashv$ |  |  |
| 36                                      | $\vdash$          | $\vdash \vdash$ | +                       | $\dashv$ | $\dashv$            | $\dashv$     | +                        | 1          | <b>—</b>    | 87               | $\vdash$   | H         | $\vdash$ | H                       | +        | $\dashv$ | +         | +       | $\dashv$ | ł     |          | 137        |          | $\dashv$ | $\dashv$                                | ┪         | $\dashv$ | -        | $\dashv$ | $\dashv$  | $\dashv$ |  |  |
| 38                                      |                   |                 | 口                       |          | _                   | ゴ            |                          | ]          |             | 88               |  |           |          |                         |          |          |           | 土       |          | l     |          | 138        |          |          |   |           |          |          |          |           |          |  |  |
| 39                                      | $\vdash$          | $\Box$          | $\downarrow \downarrow$ | 4        | 4                   | 4            | 1                        | 1          | $\vdash$    | 89               | L  | Ц         | Ц        | Ц                       | 4        | $\dashv$ | 1         | $\perp$ | 4        | - [   |          | 139        | H        | 4        | $\dashv$                                | _         | 4        | _        | Ц        | 4         | 4        |  |  |
| 40                                      | +-                | ┝╌┝╌            | ╂╌┥                     | -        | $\dashv$            | +            |                          | ┨          | -           | 90<br>91         | -  | Н         | Н        | Н                       | +        | +        | $\dashv$  | +       | $\dashv$ | ŀ     |          | 140        | Н        | ᅱ        | $\dashv$                                | -         | $\dashv$ | -        | Н        | -         | $\dashv$ |  |  |
| 41                                      | ╁┤                | $\vdash \vdash$ | ╁                       | ┪        | $\dashv$            | $\dashv$     | +-                       | 1          | $\vdash$    | 92               | ┢  | Н         | Н        | H                       | $\dashv$ | $\dashv$ | $\dashv$  | +       | $\dashv$ | l     |          | 142        | Н        | $\dashv$ | ┪                                       | ┪         | $\dashv$ | ᅱ        | H        | $\dashv$  | $\dashv$ |  |  |
| 43                                      |                   |                 |                         |          |                     |              | 上                        | 1          |             | 93               |  |           |          |                         |          |          | 丁         |         |          | ľ     |          | 143        |          |          |   |           |          |          | 口        |           |          |  |  |
| 44                                      | $\Box$            | $\perp \Gamma$  | $\Box$                  | _        | $\neg$              | $\downarrow$ | $\Box$                   | 1          | $\vdash$    | 94               |  | $\square$ |          | Щ                       | 4        | 4        | 4         | 4       | 4        |       |          | 144        | $\vdash$ | 4        |   | _         | $\dashv$ | _        | dash     | 4         | 4        |  |  |
| 45                                      | ╁                 | $\vdash\vdash$  | ╀┤                      | $\dashv$ | $\dashv$            | $\dashv$     | +                        | ┨          | <del></del> | 95<br>96         | ⊢  | Н         | Н        | Н                       | $\dashv$ | -        | $\dashv$  | +       | $\dashv$ | ŀ     | $\vdash$ | 145<br>146 | $\vdash$ | -        |   | -         |          | -        | Н        | $\dashv$  | $\dashv$ |  |  |
| 47                                      | †-                | $\vdash \vdash$ | +                       | ᅱ        | $\dashv$            | +            | 十                        | 1          | -           | 97               | <del>                                     </del> | Н         | Н        | H                       | $\dashv$ | $\dashv$ | $\dashv$  | 十       | $\dashv$ | 1     | $\vdash$ | 147        | Н        | ┪        | _                                       | _         | _        | ╛        | H        |           | ᅥ        |  |  |
| 48                                      |                   |                 |                         |          |                     | I            | $\perp$                  | ]          |             | 98               |  |           |          |                         |          | T        | Ī         | 凣       |          |       |          | 148        |          | $\Box$   |   |           |          |          |          | $\Box$    |          |  |  |